

POLYMAC 2008 AGENDA

Sandia National Laboratories - Livermore, CA June 17-19, 2008

Tuesday, June 17, 2008

8:30-9:00	Badging, Registration, Coffee
Session 1	Chair: Linda Domeier
9:00	"KCRIMS - Status of the Kansas City Plant Transformation" Erich Grotheer (KCP)
9:25	"Weapon Headspace Organics" Chris A. Harvey (LLNL)
9:50	"Polyolefin-Coated Cantilever Arrays for Real-Time Surveillance of Stockpile-Relevant Vapor Signatures" Al Loui (LLNL)
10:15	"SPME Analysis of Polyurethane Elastomers" Linda Domeier (SNL/CA), LeRoy Whinnery, Pat Keifer, Chris Harvey
10:40	Break
Session 2	Chair: Cindy Sandoval
11:00	"Oxidation of Isotopically Labeled Nylon Characterized by Mass Spectrometry" James Hochrein (SNL/NM)
11:25	"Volatile Evolution from a Poly(ethylenevinylacetate) System" Paul Morrell, David Netherton, Andree Maclean, Julian Murphy (AWE)
11:50	"Strategies and Frameworks - Getting Value for Money from University Outreach" Gary Burnell, Chris Lord and Norman Godfrey (AWE)
12:15	Lunch (pizza)
Session 3	Chair: Dan Bowen
1:15	"Approaches Toward the Synthesis of Carborane Containing Elastomers" Peter Beavis (AWE) Tony Swain, Mogon Patel
1:40	"Boron Cage Compound Nanocomposites Systems Based on Silicone and VCE Elastomers" Eric Eastwood (KCP)
2:05	"Boron Cage Compound Nanocomposites Based on Epoxies and Urethanes" Dan Bowen (KCP)

2:30	"Polysiloxanes Containing Carboranes as Physics Property Modifiers" Mogon Patel (AWE), Paul Morrell, Tony Swain, Jenny Cunningham, Peter Beavis, Julian Murphy
2:55	Break
Session 4	Chair: Norman Godfrey
3:15	"Development of Gated Processes for Product Development: Dealing with New Technology Development and Insertion" Julian Murphy (AWE)
3:40	"Aqueous Gels for Blast and Aerosol Mitigation" Andrew Vance (SNL/CA), Will Wente, Mike Foley, Tim Shepodd, Linda Domeier, John Hachman
4:05	"General Discussion Topics" All (LeRoy Whinnery will lead discussion)
5:30-7:00	Bocce at Campo di Bocce / Livermore
7:00	Dinner at <u>Campo di Bocce / Livermore</u>

Wednesday, June 18, 2008

8:00-8:35	Coffee
Session 5	Chair: Sarah Chinn
8:35	"If You Can't Buy It, You May Have to Make It Yourself (Using Synthetic Chemistry to Investigate Replacement Materials Issues)" Norman Godfrey (AWE)
9:00	"Constitutive Modeling of Radiation Effects on the Permanent Set in a Silicone Elastomer" A. Maiti (LLNL), R. H. Gee, T. Weisgraber, S. Chinn, and R. S. Maxwell
9:25	"A Mesoscopic Network Model for Permanent Set in Crosslinked Elastomers" T.H. Weisgraber (LLNL), R.H. Gee, A. Maiti, S. Chinn, R.S. Maxwell
9:50	"Radiation Induced Degradation of Toughened Silicone Rubber TR55" Cindy Alviso (LLNL), Sarah Chinn, Robert Maxwell, Tom Wilson, Chris Harvey, Rebecca Cohenour
10:15	Break

Session 6	Chair: Mogan Patel
10:35	"How Not to Make Your Bonds Weak (Factors Affecting the Peel Strength Performance of Pressure Sensitive Silicone Adhesive)" Julie Etheridge, Kath Ford, Norman Godfrey (AWE)
11:00	"Control of Microstructure and Density in Foamed Polysiloxanes" Mogon Patel (AWE), Peter Jenkins, Julian Murphy, Paul Morrell, Tony Swain
11:25	"Stress-Sensing Polysiloxane Materials" Peter Beavis (AWE), Mogon Patel, Anthony Swain, David Roberts, Simon Holder, Jon Meegan
11:50	"An Investigation into the Material Properties of Polyurethane Elastomer Mouldings" Sarra Boyd, presented by Norman Godfrey (AWE)
12:15	Lunch (sandwiches)
Session 7	Chair: Andy Vance
1:15	"Development of High Char Foam Encapsulation Materials" Mat Celina (SNL/NM), Jim Aubert, Ken Erickson, Ana Trujillo, Nick Giron, Ed Russick
1:40	"Removable Foam Aging and Reliability Study for a System Upgrade: Update of Recent Activity" " Ed Russick SNL/NM), Jim Aubert, Sarah Leming
2:05	"Process Improvements and Scale-up of RER1 Bismaleimide (BMI)" Mark Wilson (KCP)
2:30	"Foam Mechanical Characterization and Model Validation" Wei-Yang Lu (SNL/CA), Mike Neilsen, Helena Jin, and Soonsung Hong
2:55	Break
Session 8	Chair: Jim Aubert
3:15	"Synthesis of Alkyne-Containing Materials for Incorporation into Organic Hydrogen Scavengers" Anthony C Swain (AWE), Chris Entwistle
3:40	"Development of a Getter Sensor" Ward Small (LLNL), Duncan Maitland, Jane Bearinger, Steve Letts, Jim Trebes
4:05	"Development and Manufacturing of AFT-2 OBA Optical Gantry Beam" David A Calkins (SNL/NM) and Kevin Schmidt

Thursday, June 19, 2008

8:30-9:00	Coffee
Session 9	Chair: LeRoy Whinnery
9:00	"Production of Monolithic Components from Polyethylene" Anthony Swain (AWE), Niaz Khan
9:25	"Material Morphology and Electrical Resistivity in EPDM Gaskets" Linda Domeier (SNL/CA) and Nancy Yang
9:50	"Fabrication of the Second Stage Conduit Cable for the STARS Program" Rex Jaramillo (SNL/NM), Joanetta Bruhn
10:15	Break
10:40	"Bulk Mechanical Properties of Wilethane 44 Urethane Adhesive" Seth Gleiman (LANL)
11:05	"Redevelopment of a Quality Assurance Test for Wilethane 44 Urethane Adhesive" Seth Gleiman (LANL)
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Adjourn

Business Meeting - TBD

For more information, contact:

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